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	Application No.	Applicant(s)	
	09/977,956	ITO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	A. Dexter Tugbang	3729	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTO: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEI of the Office or upon petition by the applicant. See 37 CFR	S IS (OR REMAINS) CLOSED in L-85) or other appropriate commur NT RIGHTS. This application is su	this application. If not include nication will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to <u>Application filed</u>	on 10/17/01 .		
2. The allowed claim(s) is/are 7-13.			
3. The drawings filed on 17 October 2001 are accepted	by the Examiner.		
 4. Acknowledgment is made of a claim for foreign prior a) All b) Some* c) None of the: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priori International Bureau (PCT Rule 17.2(a)). 	have been received. have been received in Application	No	ion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DA noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) \square including changes required by the Notice of Draft	sperson's Patent Drawing Review	(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date _	·		
(b) including changes required by the attached Exam Paper No./Mail Date	niner's Amendment / Comment or i	n the Office action of .	
Identifying indicia such as the application number (see 37 Ceach sheet. Replacement sheet(s) should be labeled as such			back) of
7. DEPOSIT OF and/or INFORMATION about the cattached Examiner's comment regarding REQUIREM			lote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	ormal Patent Application (PTC)-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-S			
3. ☑ Information Disclosure Statements (PTO-1449 or PTO	Paper No./N	Mail Date <u>10/18/04</u> . Amendment/Comment	
Paper No./Mail Date <u>10/17/01</u>	·		
Examiner's Comment Regarding Requirement for Depression Metasial	<u> </u>	Statement of Reasons for Allo	wance
of Biological Material	9. ☐ Other	•	

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DETAILED ACTION

Election/Restrictions

- 1. Applicant's election with traverse of the invention of Group II, Claims 7-13 in the reply filed on 6/30/04 is acknowledged. The traversal is on the ground(s) that Group I is not an intermediate product and that a search and examination can be sufficiently performed for both of the inventions of Groups I and II. This is not found persuasive because Group I is considered to be an intermediate part of laminated thin plate parts. Nowhere in Group I is the laminated thin plate parts limited to any ink jet head and thus Group I can be an intermediate part of, for example, a printed circuit board. Because the search for Group II would not be required for Group I, the searches would be divergent and non-coextensive placing a burden on the examiner to search and examine the inventions of both Groups I and II. Therefore, the requirement is still deemed proper and is therefore made FINAL.
- 2. Claims 1-6 and 14-20 have been withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 6/30/04.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Linda Saltiel on October 18, 2004.

The application has been amended as follows:

In the Specification

The title has been changed to --Method for Fabricating an Ink-Jet Printer Head--.

In the abstract, the term "plates" (specification, page 36, line 2) has been replaced with the phrase of --A manufacturing method manufactures plates--; and "pattern are" (line 2) has been replaced with --pattern, wherein the predetermined pattern is--.

In the Claims

Claims 1-6 and 14-20 have been cancelled.

Claim 7 has been amended as follows.

7. (Amended) A method manufacturing an ink-jet head, comprising the steps of:

forming a plurality of different type plates and a plurality of frames, each of the plurality of different type plates having an ink passage and being formed with a corresponding frame of the plurality of frames;

applying an adhesive to each one of the plurality of different type plates; stacking each one the plurality of frames such that the ink passage of one of the plurality of different type plates communicates with the ink passage of another one of the plurality of different type plates and to laminate the plurality of different types of plates; and

removing the laminated different types plates from the stacked frames.

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In Claim 9, the phrase of "in the cutting step" (line 4) has been removed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance: the prior art does not teach all of the limitations of the claimed invention including stacking each of the plurality of frames such that an ink passage of one of the different types of plates communicates with the ink passage of another one of the plurality of different type plates and removing the different types of plates from the stacked frames.

The following two cited references will be discussed.

Pies et al (U. S. Patent 5,235,352) teaches that it is well known to apply an adhesive to each of a plurality of plates and stack and laminate the plates with ink passages in communication with one another (see Figs. 4 and 6A). However, nowhere does Pies teach the use of any frames in which the frames are stacked such that the ink passage of on different type of plate is in communication with another one of the plurality of different type plates. Furthermore, Pies does not teach removing the laminated different types of plates from the stacked frames.

Lin shows that it is well known in the art to stack a plurality of frames 14 with plates 16 (see Fig. 1) in which the frames are subsequently removed from the plates. However, nowhere does Lin show any ink passages in the plates because Lin does not teach an ink-jet head.

To combine the prior art above would therefore be impermissible hindsight.

Accordingly, Claims 7-13 are allowed.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 703-308-7599. The examiner can normally be reached on Monday - Friday 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. Dexter Tugbang

Primary Examiner

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October 18, 2004